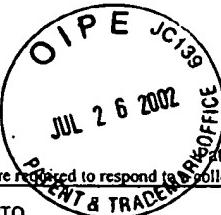


Please type a plus sign (+) inside this box →



PTO/SB/08A (10-96)

Approved for use through 10/31/99 OMB 0651-0031  
Trademark Office: U.S. DEPARTMENT OF COMMERCE

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
Substitute for form 1449A/PTO		<b>Application Number</b> 10/056,782	<b>Filing Date</b> 28 January, 2002
		<b>First Named Inventor</b> A. RUBISSA et al	<b>Group Art Unit</b> 2633
		<b>Examiner Name</b> _____	
Sheet	1	of	3
		Attorney Docket Number 02/22217	

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

## **FOREIGN PATENT DOCUMENTS**

\*EXAMINER: Initials if performed by another than the original examiner

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.  
**DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patent Applications**

Please type a plus sign (+) inside this box →



PTO/SB/08A (10-96)

Approved for use through 10/31/99 OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required by law to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of	3	Attorney Docket Number	02/23217
-------	---	----	---	------------------------	----------

Complete if Known	
Application Number	10/056,782
Filing Date	28 January, 2002
First Named Inventor	A. RUBISSA et al
Group Art Unit	2633
Examiner Name	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
B	AK	Waveguide Electrooptic Switch Arrays, Alferness, IEEE Journal on Selected Areas in Communications, August 1988, Vol. 6, No. 7., pp 1117-1113		RECEIVED	JUL 29 2002
B	AL	Voltage-Controlled Photorefractive Effect in Paraelectric KTa <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> :Cu,V, Agraanat, et al., Optics Letters, September 15, 1989, ol. 14, No. 18, pp 10 Technology Center 2600			
B	AM	Dependence of the Photoreactive Properties of Kta <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> :Cu,V on Cu Valence State Concentration, Leyva, et al., J. Appl. Phys. 1 June 1990, 67 (11), pp. 7162 - 7164			
B	AN	New Photoreactive Mechanism in Centrosymmetric Crystals: A Strain-Coordinated Jahn-Teller Relaxation, Hofmeister, et al., Hofmeister, et al., Physical Review letters, 31 August 1992, Vol. 69, No. 9., pp. 1459 – 1462			
B	AO	Increased Photoreactive Sensitivity in Double-Doped Kta <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> :Fe,Ti, Leyva, et al., Optic Letters, June 15, 1993, Vol. 18, No. 12, pp. 959 – 961			
B	AP	Characterization of a New Photoreactive Material: K <sub>1-y</sub> L <sub>y</sub> T <sub>1-x</sub> N <sub>x</sub> , Agranat et al., Optic Letters, May 15, 1992, Vol. 17, No. 10, pp. 713 – 715			
B	AQ	Near Infrared Absorption and Dark Conductivity of K <sub>1-y</sub> Li <sub>y</sub> Ta <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> Crystal, Tong et al., Appl. Phys. Lett. 22 July 1996, 69, (4) pp. 479 – 481			
B	AR	Electroholographic Neurons Implemented on Potassium Lithium Tantalate Niobate Crystals, Balberg et al., Optic Letters, October 1, 1996, Vol. 21, No. 19, pp. 1544 – 1546			
B	AS	Holographic Gratings by Spatial Modulation of the Curie-Weiss Temperature in Photoreactive K <sub>1-x</sub> Li <sub>x</sub> Ta <sub>1-y</sub> Nb <sub>y</sub> O <sub>3</sub> :Cu,V, Agranat, et al., Physical Review B, May 15, 1997, Vol. 55, No. 19, pp. 12 818 – 12 821			
B	AT	Electric Field Multiplexing of Volume Holograms in Paraelectric Crystals, Balberg, et al., Applied Optics, February 10, 1998, Vol. 37, No. 5, pp. 841 – 847			

Examiner Signature	<i>Bello</i>	Date Considered	5/23/05
--------------------	--------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>. Unique citation designation number. <sup>2</sup>. Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →



PTO/SB/08A (10-96)

Approved for use through 10/31/99 OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/056,782
Sheet	3	of	3	Filing Date	28 January, 2002
				First Named Inventor	A. RUBISSA et al
				Group Art Unit	2633
				Examiner Name	
				Attorney Docket Number	02/23217

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			
<i>AB</i>	AU	Investigation of the Holographic Storage Capacity of Paraelectric $K_{1-x}Li_xTa_{1-y}Nb_yO_3:Cu,V$ , Pesach, et al., Optic Letters, April 15, 1998, Vol. 23, No. 8, pp. 642 – 644			
<i>AB</i>	AV	Photorefractive Effect Produced by Photoinduced Metastable Changes in the Dielectric Constant, Agranat, et al., Physical Review B, May 1, 1983, Vol. 27, No. 9, pp. 5712 – 5716			
<i>AB</i>	AW	Growth and Characterization of the Perovskite $K_{1-x}Li_xTa_{1-y}Nb_xO_3:Cu$ , Hofmeister et al., Journal of Crystal Growth, Vol. 131, 1993, pp 486 – 494			
<i>AB</i>	AX	Nonlinear Optical Properties of Material, Schlossberg, et al., SPIE The International Society for Optical Engineering, Vol. 1148, August 1989, pp. 52 – 66			
<i>AB</i>	AY	Electro-Holographic Artificial Neural Networks, Agranat, et al., Physica A 200, 1993, pp 608 – 612			
<i>AB</i>	AZ	Dipolar Holographic Gratings Induced by the Photorefractive Process in Potassium Lithium Tantalate Niobate at the Paraelectric Phase, A. J. Agranat, et al., Journal of the Optical Society of America B, Vol. 14, August 1997, pp. 2043-2048			
Examiner Signature		<i>RBLH</i>		Date Considered	5/23/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>. Unique citation designation number. <sup>2</sup>. Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.